

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:	)	
	)	
Latifa Abdennebi-Najar,	)	Examiner:
Hendrikus Antonius Cornelis Bakker,	)	
Hendrik Jan Bosch, Dietmar Dirnberger,	)	
Jean-Jacques Remy, Herta Steinkellner, and	)	
Dirk Franciscus Marinus van de Wiel	)	
	)	
Serial No.: TBA (Divisional of 10/133,205)	)	Art Unit:
	)	
Filed: Herewith	)	
	)	
Title: GONADOTROPHINS IN PLANTS	)	

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Commissioner for Patents  
Mail Stop Patent Application  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to 37 C.F.R. §§ 1.97-1.99, Applicants submit the references listed on the enclosed PTO form 1449. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. § 1.56 and is being filed with the application.

Under 35 USC 120, this application relies on the earlier filing date of application serial number 10/133,205, filed on April 26, 2002. Hard copies of the references identified on the PTO Form 1449 were submitted to and/or cited by the Office in the prior patent application and, therefore, are not provided in this application.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. However, the references have not

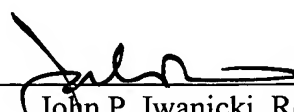
been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. § 102 or § 103.

Please apply any charges or credits to Deposit Account No. 19-0733.

Respectfully submitted,

Dated: April 21, 2004

By

  
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USPTO Form 144 9		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. <b>05032-00054</b>		Serial No. <b>TBA</b>		
<b>INFORMATION DISCLOSURE CITATION</b> Sheet 1 of 8				Applicants: <b>Latifa Abdennebi-Najar et al.</b>				
				Filing Date: <b>Herewith</b>			Group:	
<b>U.S. PATENT DOCUMENTS</b>								
Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
	AA							
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	AB	WO 87/00865	02/12/87	PCT				
	AC	WO 95/21248	08/10/95	PCT				
	AD	WO 99/09187	02/25/99	PCT				
	AE	WO 99/29879	06/17/99	PCT				
	AF	WO 99/51185	10/14/99	PCT				
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>								
	AG	Abdennebi et al., "Generating FHS Antagonists and Agonists through Immunization Against FSH Receptor N-Terminal Decapeptides," <i>J. Mol. Endocrinol.</i> , 22(2):151-159 (1999)						
	AH	Altmann et al., "Insect Cells as Hosts for the Expression of Recombinant Glycoproteins," <i>Glycoconj. J.</i> , 16(2):109-123 (1999)						
	AI	Aoki et al., "Golgi Retention of a Trans-Golgi Membrane Protein, Galactosyltransferase, Requires Cysteine and Histidine Residues within the Membrane-Anchoring Domain," <i>Proc. Nat'l. Acad. Sci. USA</i> , 89:4319-4323 (1992)						
	AJ	Asano et al., "Growth Retardation and Early Death of $\beta$ -1,4-Galactosyltransferase Knockout Mice with Augmented Proliferation and Abnormal Differentiation of Epithelial Cells," <i>EMBO J.</i> , 16(8):1850-1857 (1997)						
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	AL	Bielinska and Boime, "The Glycoprotein Hormone Family: Structure and Function of the Carbohydrate Chains," <i>Glycoproteins</i> , Montreuil, Schachter and Vlieghehart (Eds.), Elsevier Science, Chapter 11:565-578 (1995)						
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	AN	Boyd et al., "The Effect of the Removal of Sialic Acid, Galactose and Total Carbohydrate on the Functional Activity of Campath-1H," <i>Mol. Immunol.</i> , 32(17/18):1311-1318 (1995)						
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>			
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<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation
							YES
	BB						
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>							
	BC	Cabanes Macheteau et al., "N-Glycosylation of a Mouse IgG Expressed in Transgenic Tobacco Plants," <i>Glycobiology</i> , 9:365-372 (1999)					
	BD	Carlsson, "Isolation and Characterization of Glycoproteins," <i>Glycobiology, A Practical Approach</i> , IRL Press, Oxford, UK pp. 1-26 (1993)					
	BE	Casper and Holt, "Expression of the Green Fluorescent Protein-Encoding Gene from a Tobacco Mosaic Virus-Based Vector," <i>Gene</i> , 173:69-73 (1996)					
	BF	Chappel, "Heterogeneity of Follicle Stimulating Hormone: . . .," <i>Human Reprod. Update</i> , 1(5):479-487 (1995)					
	BG	Chrispeels and Faye, "The Production of Recombinant Glycoproteins with Defined Non-Immunogenic Glycans," <i>Transgenic Plants: A Production System for Industrial and Pharmaceutical Proteins</i> , Owen and Pen, Eds., John Wiley, Chichester, UK, pp. 99-113 (1996)					
	BH	Cockett et al., "High Level Expression of Tissue Inhibitor of Metalloproteinases in Chinese Hamster Ovary Cells Using Glutamine Synthetase Gene Amplification," <i>Biotechnology</i> , (NY) 8(7):662-667 (1990)					
	BI	De Vries et al, "Isolation of Total and Polysomal RNA from Plant Tissues," <i>Plant Molecular Biology Manual</i> , Gelvin, Schilperoort and Verma, Eds, (Dordrecht: Kluwer Academic Publishers), pp. B6/1-13 (1991)					
	BJ	Ddieryck et al., "Human Haemoglobin from Transgenic Tobacco," [Letters] <i>Nature</i> 386:29-30 (1997)					
	BK	Drickamer, "Clearing Up Glycoprotein Hormones," <i>Cell</i> , 67(6):1029-1032 (1991)					
	BL	Essl et al., "The N-Terminal 77 Amino Acids from Tobacco N-Acetylglucosaminyltransferase I Are Sufficient to Retain a Reporter Protein . . .," <i>FEBS Lett.</i> , 453:169-173 (1999)					
	BM	Faye, "Affinity Purification of Antibodies Specific for Asn-Linked Glycans Containing $\alpha 1 \rightarrow 3$ Fucose or $\beta 1 \rightarrow 2$ Xylose," <i>Anal. Biochem.</i> , 209(1):104-108 (1993)					
	BO	Feng et al., "The Asparagine-Linked Oligosaccharides of the Human Chorionic Gonadotropin $\beta$ Subunit Facilitate Correct Disulfide Bond Pairing," <i>J. Biol. Chem</i> , 270(20):11851-11859 (1995)					
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	CA							
<b>FOREIGN PATENT DOCUMENTS</b>								
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							YES	NO
	CB							
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>								
	CC	Fichette Laine et al., "N-Glycans Harboring the Lewis a Epitope Are Expressed at the Surface of Plant Cells," <i>Plant J.</i> , 12(6):1411-1417 (1997)						
	CD	Flanders et al., "Nucleus-Associated Microtubules Help Determine the Division Plane of Plant Epidermal Cells: ...," <i>J. Cell Biol.</i> , 110:1111-1122 (1990)						
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	CG	Goodbody and Lloyd, "Immunofluorescence Techniques for Analysis of the Cytoskeleton," <i>Plant Cell Biology, a Practical Approach</i> , Harris and Oparka, Eds. IRL Press, Oxford University Press, pp. 221-243 (1994)						
	CH	Herman and Horvitz, "Three Proteins Involved in <i>Caenorhabditis elegans</i> Vulval Invagination Are Similar to Components of a Glycosylation Pathway," <i>Proc. Nat'l. Acad. Sci., USA</i> , 96:974-979 (1999)						
	CI	Hiatt et al., "Production of Antibodies in Transgenic Plants," <i>Nature</i> , 342:76-78 (1989)						
	CJ	Hollister et al., "Stable Expression of Mammalian $\beta$ 1,4-Galactosyltransferase Extends the N-Glycosylation Pathway in Insect Cells," <i>Glycobiology</i> , 8(5):473-480 (1998)						
	CK	Horsch et al., "A Simple and General Method for Transferring Genes into Plants," <i>Science, USA</i> , 227:1229-1231 (1985)						
	CL	Horton, "In Vitro Recombination and Mutagenesis of DNA," <i>Methods In Molecular Biology 15, PCR Protocols, Current Methods and Applications</i> , White BA Ed. Humana Press Inc., Totowa, NH pp. 251-261 (1993)						
	CM	Ioffe and Stanley, "Mice lacking N-acetylglucosaminyltransferase I activity die at mid-gestation, ...," <i>Proc. Nat'l. Acad. Sci., USA</i> , 91:728-732 (1994)						
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<b>INFORMATION DISCLOSURE CITATION</b> Sheet 4 of 8				Applicants: <b>Latifa Abdennebi-Najar et al.</b>				
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	DA							
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	DB							
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>								
	DC	Jarvis et al., "Modifying the Insect Cell N-Glycosylation Pathway with Immediate Early Baculovirus Expression Vectors," <i>Nat'l. Biotechnol.</i> , 14:1288-1292 (1996)						
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	DE	Jensen et al., "Protein Analysis by Mass Spectrometry," <i>Protein Structure, a Practical Approach</i> , Creighton T.E. Ed., IRL Press., Oxford University Press, Oxford, New York, Tokyo pp. 29-57 (1997)						
	DF	Johnson and Chrispeels, "Substrate Specificities of N-Acetylglucosaminyl-, Fucosyl-, and Xylsyltransferases that Modify Glycoproteins in the Golgi Apparatus of Bean Cotyledons," <i>Plant Physiology</i> , 84:1301-1308 (1987)						
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	DL	Laemmli, "Cleavage of Structural Proteins During the Assembly of the Head of Bacteriophage T4," <i>Nature</i> , 227:680-685 (1970)						
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<b>U.S. PATENT DOCUMENTS</b>							
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	EA						
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation
							YES
	EB						
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>							
	EC	Lerouge et al., "N-Glycoprotein Biosynthesis in Plants: Recent Developments and Future Trends," <i>Plant Mol. Biol.</i> , 38:31-48 (1998)					
	ED	Leung et al., "Differential Regulation of Gonadotropin Subunit Messenger Ribonucleic Acids by Gonadotropin-Releasing Hormone Pulse Frequency In Ewes," <i>Mol. Endocrinol.</i> , 1(10):724-728 (1987)					
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	EF	Ma et al., "Characterization of a Recombinant Plant Monoclonal Secretory Antibody and Preventive Immunotherapy in Humans," <i>Nature Med.</i> , 4(5):601-606 (1998)					
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	EH	Matsumoto et al., "Characterization of a Human Glycoprotein (Erythropoietin) Produced in Cultured Tobacco Cells," <i>Plant Molecular Biology</i> , 27:1163-1172 (1995)					
	EI	Maurer and Beck, "Isolation and nucleotide sequence analysis of a cloned cDNA encoding the $\beta$ -subunit of bovine follicle stimulating hormone," <i>DNA</i> , 5(5):363-369 (1986)					
	EJ	Melo et al., "Identification of the Human Lewis <sup>a</sup> Carbohydrate Motif In a Secretory Peroxidase from a Plant Cell Suspension Culture ( <i>Vaccinium myrtillus</i> L.)," <i>FEBS Letts.</i> , 415:186-191 (1997)					
	EK	Ogawa et al., "Structures and Contribution to the Antigenicity of Oligosaccharides of Japanese Cedar ( <i>Cryptomeria japonica</i> ) Pollen Allergen Cry j I: . . .," <i>Glycoconj J.</i> , 13:555-566 (1996)					
	EL	Palacpac et al., "Structures of N-linked Oligosaccharides of Glycoproteins from Tobacco BY2 Suspension Cultured Cells," <i>Biosci. Biotechnol. Biochem.</i> , 63(1):35-39 (1999)					
	EM	Palacpac et al., "Stable Expression of Human $\beta$ 1,4-Galactosyltransferase in Plant Cells Modifies N-Linked Glycosylation Patterns," <i>Proc. Natl. Acad. Sci., USA</i> , 96:4692-4697 (1999)					
	EN	Pierce et al., "Glycoprotein Hormones: Structure And Function," <i>Ann. Rev. Biochem</i> , 50:465-495 (1981)					
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							YES
	FB						
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>							
	FC	Pogue et al., "Tobamovirus Transient Expression Vectors: . . .," <i>Molecular Microbial Ecology Manual</i> ; Kluwer Academic Publishers; the Netherlands (1997)					
	FD	Rayon, "Characterization of N-Glycans from Arabidopsis. Application to a Fucose-Deficient Mutant," <i>Plant Physiol.</i> , 119:725-733 (1999)					
	FE	Remy et al., "The Porcine Follitropin Receptor: cDNA Cloning, Functional Expression and Chromosomal Localization of the Gene," <i>Gene</i> , 163:257-261 (1995)					
	FF	Saito et al., "Integration and Expression of a Rabbit Liver Cytochrome P-450 Gene in Transgenic <i>Nicotiana tabacum</i> ," <i>Proc. Nat'l. Acad. Sci., USA</i> , 88:7041-7045 (1991)					
	FG	Schachter, "The Yellow Brick Road to Branched Complex N-Glycans," <i>Glycobiology</i> , 1(5):453-461 (1991)					
	FH	Schindler, "Arabinogalactan proteins in Maize Coleoptiles: Developmental Relationship to Cell Death During Xylem Differentiation but Not to Extension Growth," <i>Plant J.</i> , 7(1):25-36 (1995)					
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	FJ	Shevchenko et al., "Mass Spectrometric Sequencing of Proteins from Silver-Stained Polyacrylamide Gels," <i>Anal. Chem.</i> , 68(5):850-858 (1996)					
	FK	Shi and Jackowski, "One-dimensional polyacrylamide gel electrophoresis," <i>Gel Electrophoresis of Proteins. A Practical Approach</i> , Hames B.D. Ed. IRL Press. Oxford University Press. Oxford, New York, Tokyo. pp. 1-52 (1998)					
	FL	Smant et al., "Potato Root Diffusate-Induced Secretion of Soluble, Basic Proteins Originating from the Subventral Esophageal Glands of Potato Cyst Nematodes," <i>Am. Phytopathological Soc.</i> , 87(8):839-845 (1997)					
	FM	Stanley and Ioffe, "Glycosyltransferase Mutants: Key to New Insights in Glycobiology," <i>FASEB J.</i> , 9:1436-1444 (1995)					
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							YES	NO
	GB							
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>								
	GC	Stanley et al., "CHO Cells Provide Access to Novel <i>N</i> -Glycans and Developmentally Regulated Glycosyltransferases," <i>Glycobiology</i> , 6(7):695-699 (1996)						
	GD	Strasser et al., "Molecular cloning and characterization of cDNA coding for $\beta$ 1,2N-acetylglucosaminyltransferase I (GlcNAc-TI) from <i>Nicotiana tabacum</i> ," <i>Glycobiology</i> , 9(8):779-785 (1999)						
	GE	Strasser et al., "Molecular Cloning and Functional Expression of $\beta$ 1,2-Xylosyltransferase cDNA from <i>Arabidopsis thaliana</i> ," <i>FEBS Letts.</i> , 472:105-108 (2000)						
	GF	Strasser R, "Molecular Cloning of cDNA Encoding <i>N</i> -Acetylglucosaminyltransferase II from <i>Arabidopsis thaliana</i> ," <i>Glycoconjugate J.</i> , 16:787-791 (1999)						
	GG	Sturm et al., "N-Glycosylation of Plant Proteins," <i>Glycoproteins</i> , Montreuil, Schachter and Vliegenhart, Eds., Elsevier Science B.V., Chapter 9, pp. 521-541 (1995)						
	GH	Sugahara et al., "Expression of Biologically Active Fusion Genes Encoding the Common $\alpha$ Subunit ...," <i>J. Biol. Chem.</i> , 271(18):10445-10448 (1996)						
	GI	Suganuma et al., "Elimination of Disulfide Bonds Affects Assembly and Secretion of the Human Chorionic Gonadotropin $\beta$ Subunit," <i>J. Biol. Chem.</i> , 264(32):19302-19307 (1989)						
	GJ	Tacket et al., "Human Immune Responses to a Novel Norwalk Virus Vaccine Delivered in Transgenic Potatoes," <i>J. Infect. Dis.</i> , 182:302-305 (2000)						
	GK	Taticek et al., "Large-Scale Insect and Plant Cell Culture," <i>Curr. Opin. Biotechnol.</i> , 5:165-174 (1994)						
	GL	Tezuka et al., "Purification and Substrate Specificity of $\beta$ -Xylosidase from Sycamore Cell ( <i>Acer pseudoplatanus</i> L.): Application for Structural Analysis of Xylose-Containing N-Linked Oligosaccharides," <i>Anal. Biochem.</i> , 211(2):205-209 (1993)						
	GM	Thanavala et al., "Immunogenicity of Transgenic Plant-Derived Hepatitis B Surface Antigen," <i>Proc. Natl. Acad. Sci., USA</i> , 92:3358-3361 (1995)						
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Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)	
	HA							
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	HB							
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>								
	HC	Tretter et al., "Peptide-N <sup>4</sup> -(N-acetyl-β-glucosaminyl)asparagine amidase f cannot release glycans with fucose . . .," <i>Eur. J. Biochem.</i> , 199:647-652 (1991)						
	HD	Ulloa-Aguirre, "Follicle-Stimulating Isohormones: Characterization and Physiological Relevance," <i>Endocrine Reviews</i> , 16(6):765-787 (1995)						
	HE	van de Wiel et al. "High-Level Expression of Biologically Active Recombinant Bovine Follicle Stimulating Hormone in a Baculovirus System," <i>J. Mol. Endocrinol.</i> , 20:83-98 (1998)						
	HF	van Engelen et al "Coordinate Expression of Antibody Subunit Genes Yields High Levels of Functional Antibodies in Roots of Transgenic Tobacco," <i>Plant Mol. Biol.</i> , 26:1701-1710 (1994)						
	HG	van Engelen et al., "pBINPLUS: An Improved Plant Transformation Vector Based on pBIN19," <i>Transgenic Res.</i> , 4:288-290 (1995)						
	HH	von Schaewen et al., "Isolation of a Mutant <i>Arabidopsis</i> Plant that Lacks N-Acetyl Glucosaminyl Transferase I . . .," <i>Plant Physiol.</i> , 102:1109-1118 (1993)						
	HI	Wee et al., "Targeting of Active Sialyltransferase to the Plant Golgi Apparatus," <i>Plant Cell</i> , 10:1759-1768 (1998)						
	HJ	Whitelam et al., "Heterologous Protein Production in Transgenic Plants," <i>Biotechnol. Gen. Eng. Rev.</i> , 11:1-29 (1993)						
	HK	Wilson et al. "Core α1,3-Fucose Is a Key Part of the Epitope Recognized by Antibodies Reacting Against Plant N-Linked Oligosaccharides . . .," <i>Glycobiology</i> , 8(7):651-661 (1998)						
	HL	Wilson et al., "Superovulation of Cattle with a Recombinant-DNA Bovine Follicle Stimulating Hormone," <i>Animal Reprod. Science</i> , 33:71-82 (1993)						
	HM	Wu et al., "Isolation of FSH from Bovine Pituitary Glands," <i>J Endocrinol</i> , 137:59-68 (1993)						
	HN	Yamaguchi and Fukuda, "Golgi Retention Mechanism of β-1,4-Galactosyltransferase. Membrane-Spanning Domain-Dependent Homodimerization and Association with α- and β-Tubulins," <i>J. Biol. Chem.</i> , 270(20):12170-12176 (1995)						
<b>EXAMINER</b>					<b>DATE CONSIDERED</b>			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. **Copies of references not provided at the time of this submission.								